



Operations Report

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CDF Weekly Meeting



Store summary

Date	Dur (h)	Inst Lum (initial)	Int Lum (delivered)	Lum to tape (ϵ)	Si Phys Lum (ϵ)
Th 8/14	4.8	41.3e30	567	525 (92.5%)	525 (92.5%)
Fr 8/15	25.0	41.0e30	1723	1535 (89.1%)	1387 (80.5%)
Sa 8/16	4.6	40.3e30	503	433 (86.1%)	218 (43.3%)
Su 8/17	22.5	37.8e30	1619	1291 (79.8%)	1282 (79.2%)
Mo 8/18	5.2	42.2e30	608	532 (87.6%)	532 (87.6%)
Tu 8/19	0.4	44.4e30	65	23 (35.3%)	0 (0.0%)
We 8/20	16.0	28.3e30	984	931 (94.6%)	931 (94.6%)
Th 8/21		42.4e30			
Total			6.1 pb ⁻¹	5.3 pb ⁻¹ (86.8%)	4.9 pb ⁻¹ (80.3%)



quench

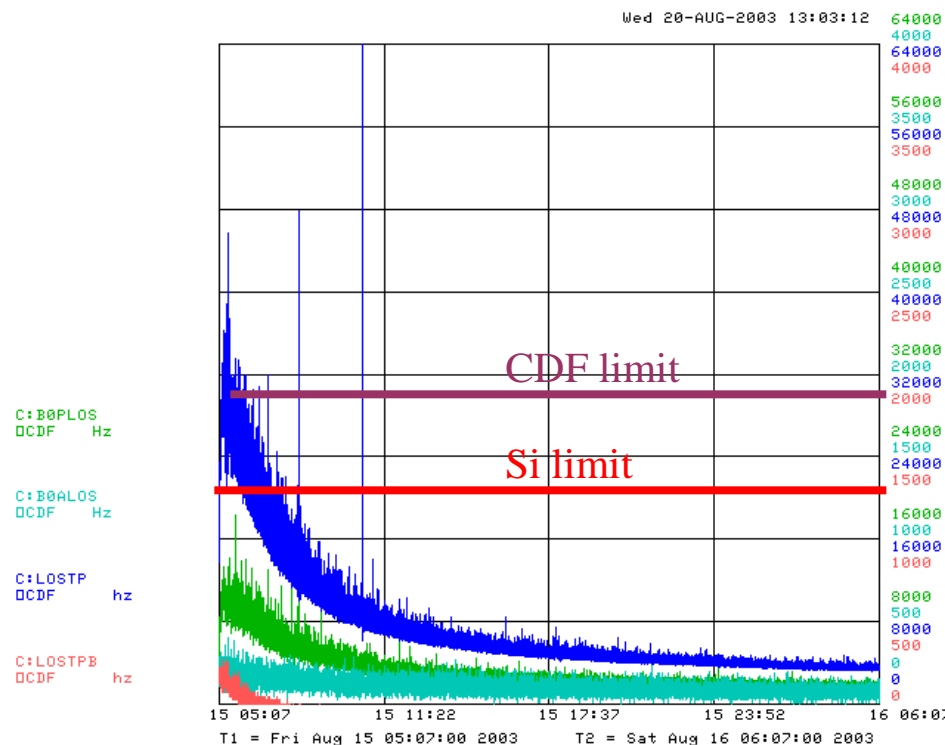


losses



Losses

- High beginning-of-store losses prevent us from immediate running with silicon
 - Or running at all, sometimes
- Usual cure of tuning them away not working
- TeV experts have dedicated some time to studying this --- currently no answers
- Since high losses are not *necessarily* dangerous, Rainer W. has agreed to make the judgement call at the beginning of every store
 - Saves us 30-60 minutes sometimes





Other beam-related woes

- 11 out of the last 14 stores have ended with a quench or abort
 - Large number of different component failures
- Crate PS died on Monday owl, causing very unstable beam (huge spikey losses, abort gaps filling, etc.)
 - Had to sit out the last 1.5 hours of store
- Two SVX rad aborts during shot setup on Tuesday due to proton injection kicker failing to fire
 - Took about 300 rad in total
 - No damage incurred



Stuff to do before shutdown

- Beam tests:
 - Optimize two-track trigger
 - New and improved physics triggers ($Z \rightarrow b\bar{b}$, Higgs multijet, SUSY dilepton...)
 - Test L2 muon board
 - Test Rev. E TDCs with modified TRACER
 - Myron-mode calorimeter runs
 - SVX bias scans
 - Two SRC tests
- It has become extremely difficult as of late to do these kinds of tests at end-of-store
 - Managed to work in EVB high-rate tests, new TT tests



Conclusions

- CDF running well --- losses/quenches making our efficiency look bad
- As of today, default physics table drops uncompressed COTD, SIXD, and ISLD banks from all streams except A and D
 - People who look at these banks should take note
- About 223 pb-1 delivered for FY03
 - Accelerator studies soon to be more common
- It has been a pleasure managing your ops for the past six months
 - Good luck to JJ